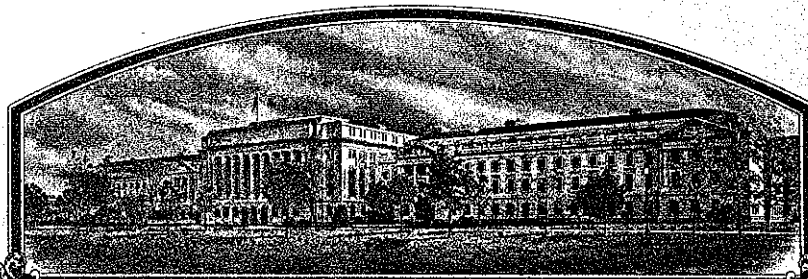


No.

8000044



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Bruce Church, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR OFFERING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

LETTUCE

'Valley Queen'



In Testimony Whereof, I have hereunto set
my hand and caused the seal of the Plant
Variety Protection Office to be affixed
at the City of Washington
this 10th day of July in
the year of our Lord one thousand nine
hundred and eighty.

Attest

Edward A. Lane
Commissioner

Plant Variety Protection Office
Grain Division

Bryant

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION

FORM APPROVED
OMB NO. 40-R3822

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1a. TEMPORARY DESIGNATION OF VARIETY Valley Queen		1b. VARIETY NAME Valley Queen		FOR OFFICIAL USE ONLY PV NUMBER 8000044	
2. KIND NAME Lettuce		3. GENUS AND SPECIES NAME Lactuca Sativa L.		FILING DATE 1/22/80	TIME 3:00 P.M.
4. FAMILY NAME (BOTANICAL) Compositae		5. DATE OF DETERMINATION January 10, 1978		FEE RECEIVED \$ 500. \$ 250.00	DATE 1/22/80 6/18/80
6. NAME OF APPLICANT(S) Bruce Church, Inc.		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P. O. Box 599 Salinas, California 93902		8. TELEPHONE AREA CODE AND NUMBER (408) 758-4421	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation		10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION California		11. DATE OF INCORPORATION 3/15/49	
12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS: M. T. Payne, Vice President Bruce Church, Inc. P. O. Box 599, Salinas, California 93902					

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☒ 13B. Exhibit B, Novelty Statement.
- ☒ 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
- ☒ 13D. Exhibit D, Additional Description of the Variety.

14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a). (If "Yes," answer 14B and 14C below.) ☐ YES ☒ NO

14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? ☐ YES ☒ NO

14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? ☐ YES ☒ NO (If "Yes," give name of countries and dates.)

15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? ☐ YES ☒ NO (If "Yes," give name of countries and dates.)

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? ☐ YES ☒ NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

1/18/80
(DATE)


(SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)



Bruce Church, Inc.

8000044

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

VARIETY: VALLEY QUEEN

EXHIBIT A

Origin and Breeding History of Variety

1. Valley Queen originated from a hand pollinated cross between Ithica and Vanguard. The cross was made in the Salinas Valley of California in 1971.
2. Initial trial plantings were conducted in 1972 to allow for individual plant selection work. Several subsequent trial plantings were made following the initial selection process to allow for segregation and more evaluations and selections. Selections were made on the basis of size, color, texture and uniform heading capabilities.
3. The procedures involving trial plantings, evaluations, and plant selections were repeated numerous times before finally attaining the desirable plant type. Then plantings were conducted in Yuma, Arizona.
4. Valley Queen is genetically uniform and free of any distinct variation.



Bruce Church, Inc.

8000044

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

VARIETY: VALLEY QUEEN

EXHIBIT B

Novelty Statement

Valley Queen most closely resembles the variety Vanguard. The distinguishing features of Valley Queen compared to Vanguard include:

1. Heading and Uniformity of Heading

Valley Queen is a better heading variety and extremely more uniform heading variety than Vanguard during the harvest period of late December through the middle of January in Yuma, Arizona. Vanguard will not make a uniform solid head because of the head leaves opening outward during this period; where as the head leaves of Valley Queen maintain a compact solid head.

2. Color and Reflectance

Valley Queen has a dark green glossy surface reflectance while Vanguard has a dark green dull surface reflectance.

3. Leaf Margin

Valley Queen has a leaf margin defined as "Dentate" whereas the Vanguard leaf margin is defined as "Entire."

OBJECTIVE DESCRIPTION OF VARIETY
(LETTUCE)

INSTRUCTIONS: See reverse.

NAME OF APPLICANT(S)

Bruce Church, Inc.

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

P. O. Box 599
Salinas, California 93902

FOR OFFICIAL USE ONLY

PVPO NUMBER

8000044

297 - 1 -

VARIETY NAME OR TEMPORARY
DESIGNATION

Valley Queen

Place the appropriate number that describes the varietal character of this variety in the boxes below.

1. PLANT TYPE:

10 = CUTTING (Leaf)

20 = STALK

50 = BUTTERHEAD

60 = LATIN

70 = OTHER (Specify)

30 = COS

31 = SELF-CLOSING
GROUP32 = LOOSE-CLOSING
GROUP

40 = CRISPHEAD

41 = IMPERIAL GROUP

42 = GREAT LAKES GROUP

43 = VANGUARD

44 = NEW YORK GROUP

2. SEED COLOR:

1 = WHITE 2 = BLACK 3 = YELLOW

3. ANTHOCYANIN:

1 = ABSENT 2 = PRESENT

4. LEAF CONTAINING ANTHOCYANIN:

1 = COVERED 2 = SPOTTED 3 = ALONG MARGIN 4 = ABSENT 5 = OTHER (Specify)

5. LEAF SURFACE TEXTURE:

1 = SMOOTH 2 = BLISTERED

6. LEAF SURFACE REFLECTANCE:

1 = DULL 2 = GLOSSY 3 = OTHER (Specify)

7. LEAF MARGIN:

1 = STRAIGHT 2 = WAVY

3 = CURLED

1 = ENTIRE 2 = DENTATE 3 = INCISED

4 = DEEPLY INCISED 5 = OTHER (Specify)

8. LEAF SHAPE:

1 = ROUNDED 2 = POINTED

1 = BROADER
THAN LONG 2 = LONGER
THAN BROAD 3 = OTHER (Specify)

9. LEAF COLOR: (See reverse.)

1 = RED 2 = REDDISH-BROWN 3 = YELLOW 4 = YELLOWISH-GREEN 5 = GREYISH-GREEN

6 = BLUE-GREEN 7 = DARK-GREEN 8 = VERY DARK GREEN

10. HEADS:

1 = SPHERICAL 2 = FLATTENED 3 = ELONGATE

4 = POINTED 5 = NON-HEADING

11. PLANT SIZE: (See reverse.)

1 = SMALL 2 = MEDIUM 3 = LARGE

12. CULTURE:

1 = SUMMER
CROP 2 = WINTER
CROP 3 = NOT
SPECIFIC 4 = UNDER
GLASS 5 = OTHER (Specify)

Spring and early Winter

13. SIZE OF 10-DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) AT 25° C.: (Place a zero in first box (i.e.) when size is 9 mm. or less.)

mm. LENGTH OF SEEDLING

mm. LENGTH OF COTYLEDON

mm. WIDTH OF COTYLEDON

14. DISEASE RESISTANCE TO: (Enter zeroes in box(es) where there is no special disease resistance.)

1 = TIPBURN

2 = MOSAIC

3 = DAMPING OFF

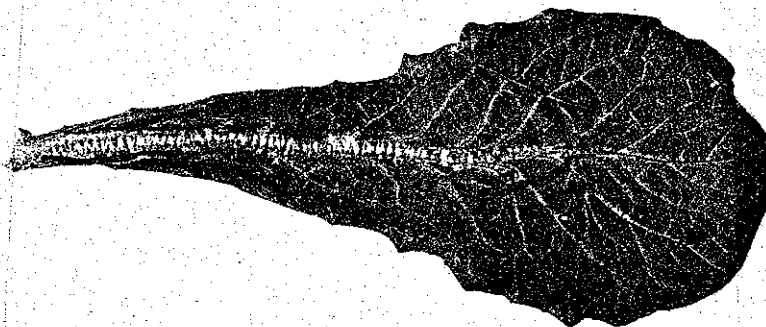
4 = DOWNY MILDEW

5 = SCLEROTINIA
ROT6 = BROWN
BLIGHT

7 = BIG VEIN

8 = OTHER (Specify)

15. OUTLINE THE FOURTH LEAF: (For standardization purposes, the fourth leaf should be taken from a 20-day old plant grown under constant light.)



FORM GR-471 (REVERSE)

16. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER		NAME OF VARIETY				
Leaf color		Vanguard				
Leaf pigmentation		Vanguard				
Leaf shape		Vanguard				
Plant size		Vanguard				
Head size		Vanguard				
VARIETY	NO. OF DAYS TO HEAD MATURITY UNDER WINTER *CROPPING	LOCATION	NO. OF DAYS TO HEAD MATURITY UNDER SUMMER **CROPPING	LOCATION	NO. OF DAYS TO SEED STALK EMERGENCE UNDER SUMMER CROPPING	LOCATION
Submitted	93	Yuma, AZ	95	Salinas, CA	83	San Joaquin Valley, CA
Similar	93	Yuma, AZ	97	Salinas, CA	80	San Joaquin Valley, CA
Name of → similar variety	Vanguard		Vanguard		Vanguard	

*Early Winter

**Spring

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for completing this form:

1. C. M. Rodenburg, 1960, Varieties of Lettuce, An International Monograph, Instituut voor de Veredeling van Tuinbouwgewassen, Wageningen, Holland.
2. L. L. Morse, 1930, Field Notes on Lettuce, published by Ferry-Morse Seed Co.

LEAF COLOR: Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following lettuce varieties may be used as a guide to identify the eight colors listed on the form.

Color	Variety
Red	"Salad Trim"
Reddish-brown	"Ruby"
Yellow	"Salad Bowl"
Yellowish-green	"Oakleaf"
Greyish-green	"White Boston"
Bluish-green	"Bibb"
Dark-green	"Imperial" group
Very dark green	"Deer Tongue"

PLANT SIZE: The following varieties may be used as a guide to identify the plant type size:

TYPE	COMPARABLE VARIETIES		
	SMALL	MEDIUM	LARGE
Cutting (leaf)	Boston-Curled	Prize Head	Grand Rapids
Stalk (stem)	Celtuce	--	--
Cos	Express	Parris Island	Giant White
Crisphead	Mignonette	Hanson (Merit)	Climax
Butterhead	Tom Thumb	Big Boston	Mammoth Butter
Latin	Sucrine	Creole	Deer Tongue



Bruce Church, Inc.

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

VARIETY: VALLEY QUEEN 8000044

EXHIBIT C

Objective Description of Variety - Item 13

Size of Ten-Day Old Seedling Grown
Under Constant Light of 25 C

<u>Length of Seedling</u>	<u>Length of Cotyledon</u>	<u>Width of Cotyledon</u>
79mm	25mm	7mm
81	28	8
74	25	7
70	23	6
79	29	8
65	22	8
80	28	9
84	30	8
78	28	8
69	27	8
—	—	—
Avg. 76mm	26mm	8mm

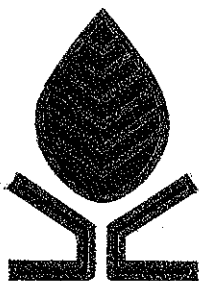


APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

EXHIBIT D

Additional Description of Variety

1. Annual. A crisp head variety with a large size frame. Wrapper leaves are slightly savoyed with a dark green and glossy color. Diameter of the core is large, (2-2½ cm.) and low in verticle distance (1½-2 cm.). Petioles are medium smooth.
2. Adapted for the late December and early January harvest period of Yuma, Arizona, and Imperial Valley, California. Valley Queen is also adapted to the spring harvest period of Salinas Valley, California.
3. Seed stock is medium height and very uniform. Produces a medium size panicle and is an average seed yielder.



Bruce Church, Inc.

November 30, 1994

Dr. Kenneth Evans, Commissioner
Plant Variety Protection Office
A.M.S. - U.S.D.A.
Room 500 National Agricultural Library
Beltsville, Maryland 20705

Dear Dr. Evans:

Subject: Sale of lettuce patent Valley Queen (8000044)

This letter shall serve as notice that Bruce Church, Inc. has sold to Paragon Seed, Inc. all rights and interest to the lettuce patent Valley Queen (8000044).

Sincerely,

Victor L. Lanini
Vice President

Paragon Seed Inc.